

**Table C-2. Summary of Federal funds for research and development and for R&D plant:
fiscal years 2001, 2002, and 2003**

[Dollars in millions]

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Character of work, performers, and field	2001	Preliminary			
		2002	Percent change 2001-2002	2003	Percent change 2002-2003
Total outlays for research and development and for R&D plant	79,692.2	91,113.8	14.3	97,171.7	6.6
Research and development	75,335.7	86,072.5	14.3	92,464.6	7.4
R&D plant	4,356.5	5,041.4	15.7	4,707.1	-6.6
Total obligations for research and development and for R&D plant	84,003.0	97,464.6	16.0	103,113.8	5.8
Research and development, total	79,933.2	92,979.4	16.3	98,608.1	6.1
By performers:					
Intramural ¹	20,219.8	23,531.3	16.4	24,557.7	4.4
Industrial firms	27,006.2	34,182.2	26.6	36,411.3	6.5
FFRDCs administered by industrial firms	1,186.6	1,380.1	16.3	1,477.9	7.1
Universities and colleges	19,587.9	21,343.6	9.0	23,055.2	8.0
FFRDCs administered by universities and colleges	4,617.7	4,669.2	1.1	4,834.5	3.5
Other nonprofit institutions	5,138.8	5,793.0	12.7	6,260.7	8.1
FFRDCs administered by nonprofit institutions	1,269.1	1,185.3	-6.6	1,222.2	3.1
State and local governments	450.6	491.6	9.1	393.1	-20.0
Foreign	456.5	403.1	-11.7	395.5	-1.9
Research, total	44,713.7	49,808.8	11.4	53,376.9	7.2
By performers:					
Intramural ¹	11,130.9	12,529.8	12.6	13,210.6	5.4
Industrial firms	5,262.3	6,293.6	19.6	6,565.7	4.3
FFRDCs administered by industrial firms	822.3	885.6	7.7	982.4	10.9
Universities and colleges	18,657.1	20,330.5	9.0	22,228.9	9.3
FFRDCs administered by universities and colleges	3,096.3	3,410.0	10.1	3,478.2	2.0
Other nonprofit institutions	4,577.9	5,152.6	12.6	5,750.9	11.6
FFRDCs administered by nonprofit institutions	739.4	728.0	-1.5	741.2	1.8
State and local governments	308.7	353.4	14.5	282.4	-20.1
Foreign	118.9	125.3	5.4	136.6	9.0
By fields of science:					
Life sciences	23,057.3	25,868.4	12.2	28,672.8	10.8
Psychology	741.9	838.6	13.0	955.2	13.9
Physical sciences	4,600.8	5,145.2	11.8	5,200.4	1.1
Environmental sciences	3,251.7	3,667.5	12.8	3,878.8	5.8
Mathematics and computer sciences	2,610.6	2,751.3	5.4	2,866.1	4.2
Engineering	8,197.0	8,951.4	9.2	9,160.6	2.3
Social sciences	1,008.6	1,027.2	1.8	1,050.3	2.3
Other sciences, n.e.c.	1,245.8	1,559.2	25.2	1,592.6	2.1
Basic research, total	21,958.1	24,173.5	10.1	25,976.6	7.5
By performers:					
Intramural ¹	4,193.8	4,685.4	11.7	4,411.1	-5.9
Industrial firms	917.1	1,122.9	22.4	1,446.2	28.8
FFRDCs administered by industrial firms	175.1	197.9	13.0	220.0	11.2
Universities and colleges	11,792.2	12,737.1	8.0	14,024.2	10.1
FFRDCs administered by universities and colleges	1,762.1	1,969.3	11.8	1,984.3	.8
Other nonprofit institutions	2,441.7	2,754.0	12.8	3,152.9	14.5
FFRDCs administered by nonprofit institutions	540.5	553.6	2.4	570.6	3.1
State and local governments	71.5	85.0	18.8	89.5	5.4
Foreign	64.0	68.4	6.9	77.6	13.4
By fields of science:					
Life sciences	12,835.5	14,355.4	11.8	15,391.7	7.2
Psychology	292.9	335.6	14.6	364.1	8.5
Physical sciences	3,327.1	3,664.1	10.1	3,868.9	5.6
Environmental sciences	1,663.0	1,852.5	11.4	2,018.3	8.9
Mathematics and computer sciences	957.8	1,002.4	4.7	1,054.5	5.2
Engineering	1,911.5	1,909.1	-.1	2,174.3	13.9
Social sciences	278.4	294.9	5.9	304.8	3.3
Other sciences, n.e.c.	691.7	759.4	9.8	800.0	5.3

See explanatory information, if any, and SOURCE at end of table.

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[Dollars in millions]

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Character of work, performers, and field	2001	Preliminary			
		2002	Percent change 2001-2002	2003	Percent change 2002-2003
Applied research, total	22,755.6	25,635.2	12.7	27,400.3	6.9
By performers:					
Intramural ¹	6,937.2	7,844.5	13.1	8,799.4	12.2
Industrial firms	4,345.2	5,170.7	19.0	5,119.5	-1.0
FFRDCs administered by industrial firms	647.2	687.7	6.3	762.4	10.9
Universities and colleges	6,864.9	7,593.4	10.6	8,204.7	8.1
FFRDCs administered by universities and colleges	1,334.2	1,440.8	8.0	1,493.9	3.7
Other nonprofit institutions	2,136.2	2,398.6	12.3	2,598.0	8.3
FFRDCs administered by nonprofit institutions	198.9	174.4	-12.3	170.6	-2.2
State and local governments	237.1	268.4	13.2	192.8	-28.1
Foreign	54.9	56.9	3.7	59.0	3.6
By fields of science:					
Life sciences	10,221.8	11,512.9	12.6	13,281.0	15.4
Psychology	449.0	503.0	12.0	591.1	17.5
Physical sciences	1,273.6	1,481.1	16.3	1,331.6	-10.1
Environmental sciences	1,588.6	1,815.0	14.2	1,860.5	2.5
Mathematics and computer sciences	1,652.8	1,748.9	5.8	1,811.6	3.6
Engineering	6,285.5	7,042.3	12.0	6,986.4	-.8
Social sciences	730.2	732.2	.3	745.5	1.8
Other sciences, n.e.c.	554.1	799.8	44.4	792.6	-.9
Development, total	35,219.5	43,170.6	22.6	45,231.2	4.8
By performers:					
Intramural ¹	9,088.9	11,001.5	21.0	11,347.2	3.1
Industrial firms	21,744.0	27,888.6	28.3	29,845.6	7.0
FFRDCs administered by industrial firms	364.3	494.5	35.7	495.5	.2
Universities and colleges	930.8	1,013.1	8.8	826.4	-18.4
FFRDCs administered by universities and colleges	1,521.4	1,259.2	-17.2	1,356.3	7.7
Other nonprofit institutions	560.8	640.4	14.2	509.8	-20.4
FFRDCs administered by nonprofit institutions	529.7	457.3	-13.7	480.9	5.2
State and local governments	141.9	138.2	-2.6	110.7	-19.9
Foreign	337.6	277.7	-17.7	258.9	-6.8
R&D plant, total	4,069.8	4,485.2	10.2	4,505.7	.5
By performers supported:					
Intramural	520.4	625.1	20.1	788.3	26.1
Industrial firms	2,179.8	2,428.6	11.4	2,257.6	-7.0
FFRDCs administered by industrial firms	41.8	108.3	159.1	108.9	.6
Universities and colleges	284.7	318.8	12.0	370.1	16.1
FFRDCs administered by universities and colleges	615.9	560.1	-9.1	556.5	-6.6
Other nonprofit institutions	27.9	34.8	24.5	45.9	32.2
FFRDCs administered by nonprofit institutions	357.5	376.4	5.3	345.1	-8.3
State and local governments	1.4	3.2	131.2	3.5	7.7
Foreign	40.4	29.9	-26.0	29.8	-.3

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

KEY: FFRDCs = Federally funded research and development centers
n.e.c. = Not elsewhere classified

NOTE: Because of rounding, detail may not add to totals. Percentages are computed using dollars in thousands.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: Fiscal Years 2001, 2002, and 2003